



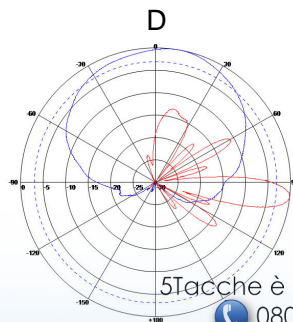
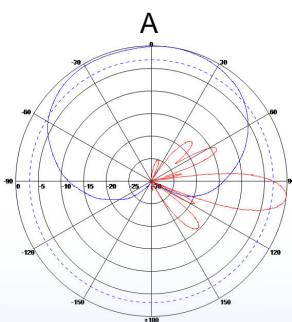
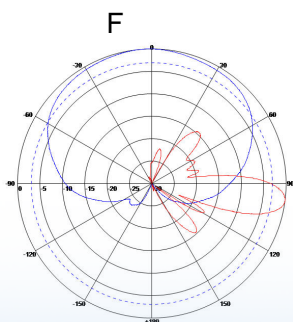
Multi-band Panel	1880~1920	2010~2025	2555~2635
Dual Polarization	X		
Half-power Beam Width	65°		
Fixed Electrical Downtilt	6°		

TDD-LTE Dual Polarized Smart Antenna Technical Sheet

1880~1920/2010~2025/2555~2635MHz 100/90/65°12dBi 6°Tilt

Electrical specifications		KDA4-1826D12BT6		
Frequency range (MHz)		1880~1920	2010~2025	2555~2635
Polarization		±45°		
Electrical Downtilt (°)		6		
Down-tilt Precision(°)		±1		
V.S.W.R.		≤1.5		
Isolation between Co-polarization Ports(dB)		≥28		
Isolation between Cross-polarization Ports(dB)		≥30		
Transmission from Any Column's Port to Calibration Port(dB)		-26±2		
Max.Altitude Difference between Calibration Port and Each Radiation Port (dB)		≤0.7		
Max.Phase Difference between Calibration Port and Each Radiation Port (°)		≤5		
Single Column	Horizontal -3dB Beamwidth (°)	100±15	90±15	65±15
	Gain(dBi)	≥12	≥13	≥14.5
	Cross Polar Ratio (dB)	≥18, (±60°≥10)		
	Front-to-back Ratio(dB)	≥23		≥25
Broadcasting Pattern	Horizontal Beamwidth(°)	65±5		
	Vertical Beamwidth(°)	≥12	≥11	≥9
	Gain(dBi)	≥12	≥13	≥14
	Edge level at ±60°(dB)	12±2		
	Cross Polar Ratio (dB)	≥22, (±60°≥10)		
	Front-to-back Ratio(dB)	≥28		
	First Upper Side Lobe Suppression (dB)	≤-16		
First zero level(dB)	≥-18			
Traffic Beam Pattern	Gain for Operation Pattern at 0° Direction (dBi)	≥18	≥19	≥20
	Horizontal Beamwidth for Operation Pattern at 0° Direction (°)	≤29	≤26	≤25
	Horizontal Minor Electric Level for Operation Pattern at 0° Direction (dB)	≤-12		
	±60° Direction Gain(dBi)	≥15.5	≥16.5	
	Horizontal Beamwidth for Operation Pattern at ±60° Direction (°)	≤32		≤23
	Horizontal Minor Electric Level for Operation Pattern at ±60° Direction (dB)	≤-5		≤-4
	Cross Polar Ratio for Operation Pattern at 0° Direction (Main-direction)	≥22		
	Front-to-back Ratio for Operation Pattern at 0° Direction (dB)	≥28		

Pattern(Single Column)	H Plane(Blue)	E Plane(Red)
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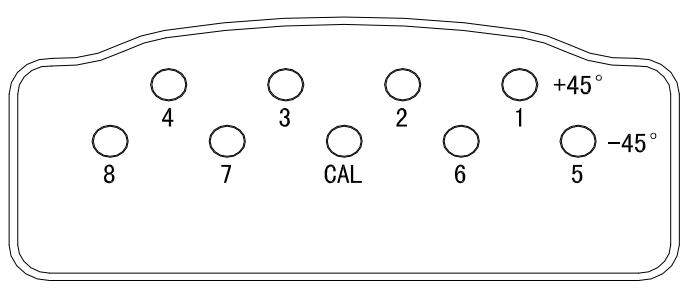
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Multi-band Panel	1880-1920	2010-2025	2555-2635
Dual Polarization	X		
Half-power Beam Width	65°		
Fixed Electrical Downtilt	6°		

Mechanical specifications	
Connector	(8+1)×N Female
Connector position	Bottom
Height/width/depth (mm)	740×310×133(with bracket)
Weight (kg) (without bracket)	7.8
Radome material	UPVC
Radome color	Gray
Mechanical tilt (°)	-5~10
Operating temperature (°C)	-40~60
Rated wind velocity (m/s)	60
Ports Sketch	
	

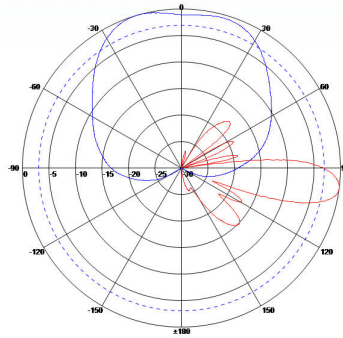


Antenna Weight						
	Frequency (MHz)	Port	1/5	2/6	3/7	4/8
30° Broadcasting Pattern	1880-1920	Altitude	0.3	1	1	0.3
		Phase (°)	-8	0	0	-8
	2010-2025	Altitude	0.3	1	1	0.3
		Phase (°)	-8	0	0	-8
65° Broadcasting Pattern	1880-1920	Altitude	0.3	1	0.5	0.3
		Phase (°)	-28	-8	0	-160
	2010-2025	Altitude	0.3	1	0.3	0.3
		Phase (°)	-20	-2	0	-170
	2555-2635	Altitude	0.35	1	1	0.35
		Phase (°)	-115	0	0	-115
90° Broadcasting Pattern	1880-1920	Altitude	0.35	1	1	0.35
		Phase (°)	-110	0	0	-110
	2010-2025	Altitude	0.35	1	1	0.35
		Phase (°)	-117	0	0	-117
0° Traffic Beam Pattern	1880-1920	Altitude	1	1	1	1
	2010-2025	Phase (°)	0	0	0	0
	2555-2635	Phase (°)	0	0	0	0
60° Traffic Beam Pattern	1880-1920	Altitude	1	1	1	1
	2010-2025	Phase (°)	0	-147	66	-81
	2555-2635	Phase (°)	0	-147	66	-81

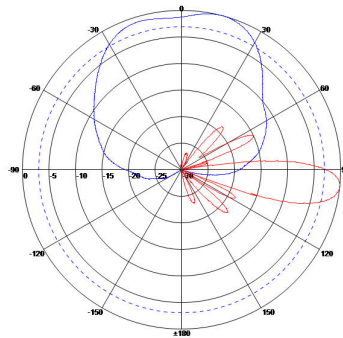


Multi-band Panel	1880-1920	2010-2025	2555-2635
Dual Polarization	X		
Half-power Beam Width	65°		
Fixed Electrical Downtilt	6°		

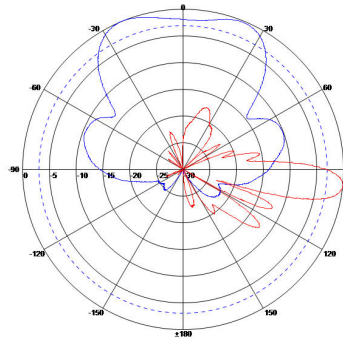
Pattern (F band 65° Broadcasting Pattern) H Plane(Blue) E Plane(Red)



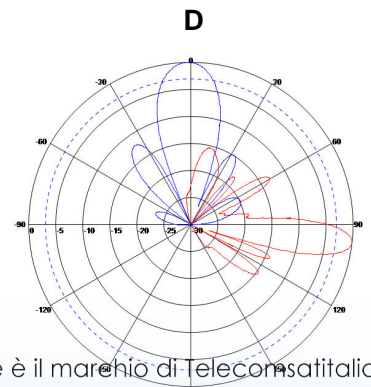
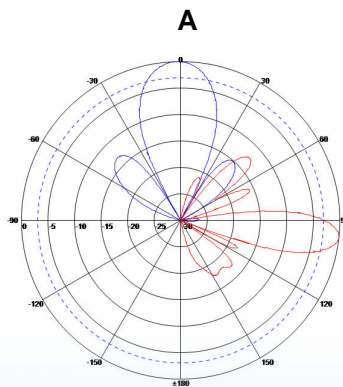
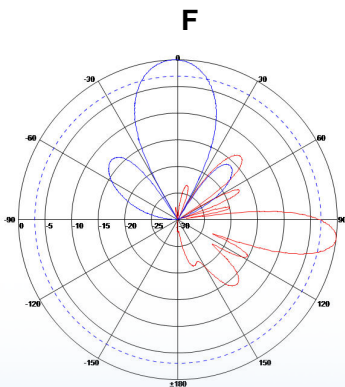
Pattern (A band 65° Broadcasting Pattern) H Plane(Blue) E Plane(Red)



Pattern (D band 65° Broadcasting Pattern) H Plane(Blue) E Plane(Red)



Pattern (0° Traffic Beam Pattern) H Plane(Blue) E Plane(Red)



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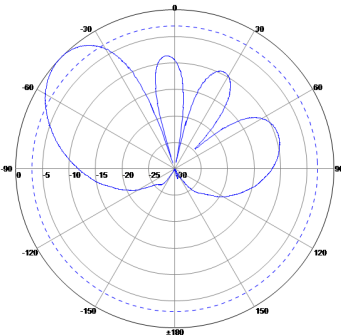
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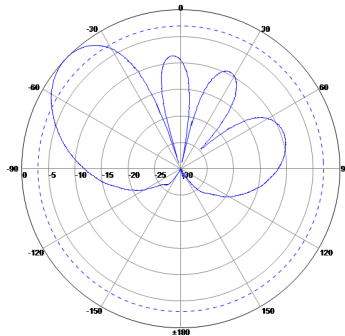
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Pattern (60° Traffic Beam Pattern) H Plane

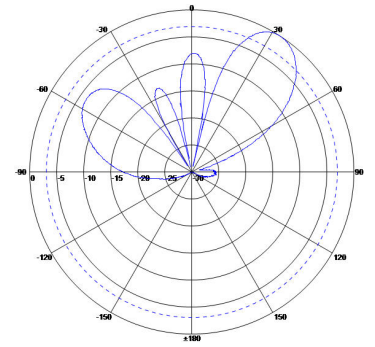
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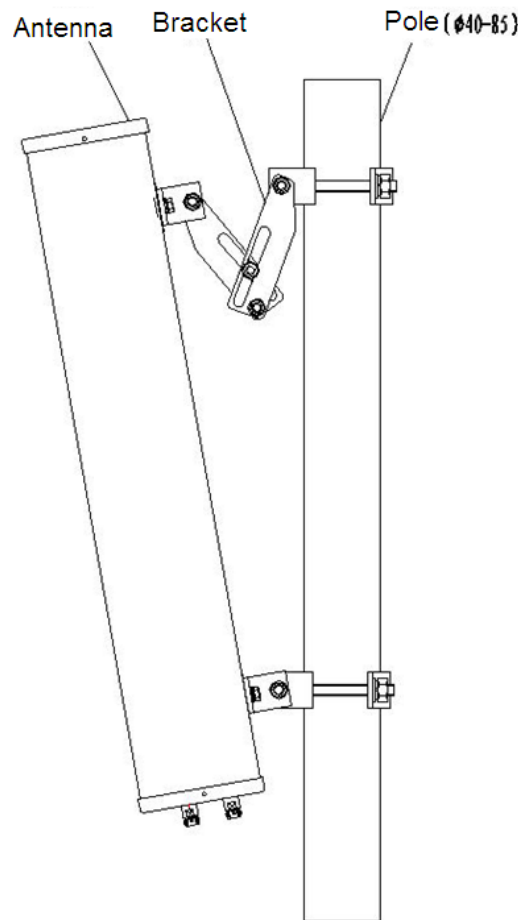
A



D



Installation Sketch



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